Use Attainability Analysis

for

WBID 3197 Dick's Fork

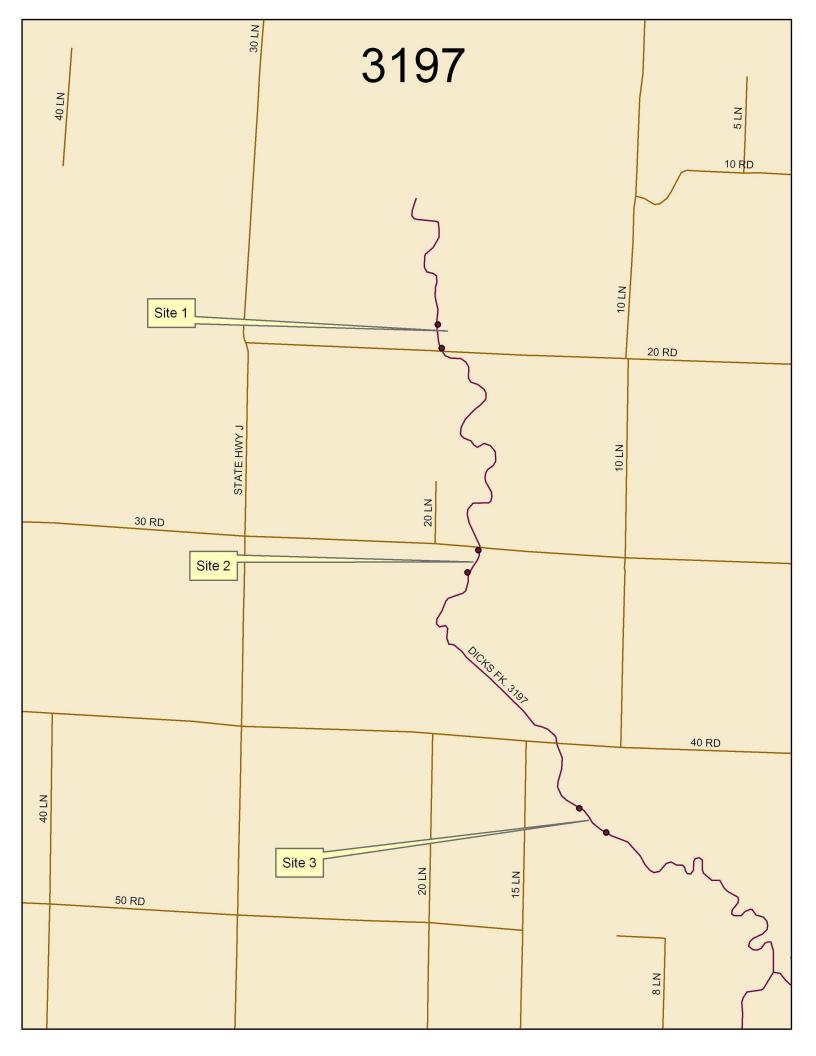
Submitted by SES Inc.

to Missouri Department of Natural Resources Water Protection Program

Date received: October 26, 2007

Data Sheet A - Water Body Identification

I. Water Body Information (For water body being surveyed)
Water Body Name (from USGS 7.5' quad): Dicks Fork
Missouri Water Body Identification (WBID) Number: 3197
8 digit HUC code: 11070207 County: Barton
Upstream Legal Description (from Table H): T32N R31W 28
Downstream Legal Description (from Table H): T31N R31W 23
Number of sites evaluated: 3
List all site numbers, listed consequently upstream to downstream:
1, 2, 3
Site Locations Map(s): Attach a map of the entire segment with assessment sites clearly labeled. Mark any other items that may be of interest.
II. Facility Information (list all permitted discharges to the water body segment) Facility Name(s) and Permit Number(s):
Lamar closed Sanitation Landfill
MO0110272
III. UAA Surveyor (please print legibly)
Name of Surveyor: Telephone Number: Aaron Ball (913)307-0046
Aaron Ball (913)307-0046 Organization/Employer:
SES, Inc.
Please verify that you have completed all sections, checked all applicable boxes, and that the form is complete.
Signed: Aaron Ball Date:10/23/2007



WBID#	3197
Site #	1

Data Sheet B-Site Characterization

Date & Time: 9/25/07 1:30			Site Location Description (e.g. road crossing):				
Personnel: Larissa Brown, Aaron Ball			Upstream of Raod 20 crossing				
Current Weath	ner Cond	ditions: Rainy		Facility Nar	cility Name: Lamar Closed Sanitaiton Landfill		
Weather cond	itions fo	r the past 10 days:	4 in rain	Permit Nun	nber:	MO0110272	
Drought condi	tions?: N	No drought ☑ ; Pha	se I □ ; Phase	II □ ; Phas	e III □ ; Pl	hase IV □ ; Ur	nknown 🗆
Site Location	:						
Location Coor	dinates	(Universal Transver	se Mercator Pi	rojection, In	Meters		
Site 01	Easting	(UTM X):	Northing (UTN	И Y):		Horizontal Ac	ccuracy: Meters
	038186	4	4143364				
Site 11	Easting	(UTM X):	Northing (UTN	И Y):		Horizontal Ac	ccuracy: Meters
	038189		4148163	,			·
	ı		<u></u>				
Photos:							
		Nests Durass	Dhata ID#	Dhata F)	Dhata ID#	Dhata Duranaa
Photo ID#		Photo Purpose	Photo ID#:	· ·		Photo ID#:	Photo Purpose
30	Downst	ream	31	Upstream			
Photo ID#	P	hoto Purpose	Photo ID#	Photo F	Purnosa	Photo ID#	Photo Purpose
T HOLO ID#	<u>'</u>	noto i dipose	T HOLO ID#	1 11010 1	игрозс	T HOLO ID#	1 Hoto 1 dipose
Photo ID#	Р	hoto Purpose	Photo ID#	Photo F	Purpose	Photo ID#	Photo Purpose
		'					
	<u>I</u>					1	L
Uses Observ	. d.						
		□ Skip diving	□ SCUBA di	ivina	☐ Tubin	~	☐ Water Skiing
			iving			-	
☐ Wind surfing ☐ Kayaking ☐ Boating		Ţ.	☐ Wadin			☐ Rafting	
☐ Hunting ☐ Trapping ☐ Fishing Describe:				☑ None	of the above	☐ Other:	
Describe.							

WBID#	3197
Site #	1

Data Sheet B- Site Characterization (Continued)

Surrounding Conditi	ons:				
☐ City/County parks	☐ playgrounds	☐ MDC conse	rvation lands	□ Urban areas	☐ Rural Residentia
□ Campgrounds	☐ State parks	□ National Fo	rests	☐ Nature trails	☐ Stairs/walkways
☐ Boating accesses	☑ Fence	☐ No tresspas	ss sign	☐ Steep Slopes	☐ Other:
Comments:					
Evidence of Human I	Use: ☐ Foot path/prints	□ Dock/platfor	m	☐ Camping Sites	s □ Rope swings
☐ Roads ☐ RV/ATV Tracks	☐ Foot path/prints	☐ NPDES Disc		☐ Fishing Tackle	
comments/other:		LI NEDLO DISC	Jiaiye .	LI FISHING LACKIC	LI LIVESTOCK WATERIN
Substrate:	None				
% Cobble	% Gravel	% Sand 7	0 % Silt	30% Mud/Clay	% Bedrock
Aquatic Vegatation:					
duckweed, 3% covera	ge				
Water Characteristic			 3.		7.04
Odor:	□ Sewage	☑ Musky	☐ Chem		☐ None ☐ Othe
Color:	☐ Clear	☐ Green	☐ Gray	<u>v</u>	☑ Milky ☑ Othe
				_	Black
Bottom Deposit:	☐ Sludge	☑ Solids			☐ None ☐ Othe
Surface Deposit:	□ Oil	□ Scum	□ Foam	1 L	☑ None □ Othe

WBID#_	3197	
Site#	1	

Data Sheet B - Site Characterization (continued)

Channel Feature	Distance from	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)
	access location (m)				
mmonto: (Disease		. h			
omments: (Please r	ecord any additional comments	s nere.)			
one					
aaaa waxifu 4ba4 w	an barra samulatad all r		اطعمالمسم المام	- h-v 4h-4 4h-	fa ia
ease verny that y emplete.	ou have completed all s	sections, check	ed all applicabl	e boxes, and that the	iomi is
veyor's Signature:	Aaron Ball		_Date of Survey:	9/25/2007	
			_		
Organization:	SES, Inc.	Position: Field Team Leader			

Field Data Sheets for Recreational Use Stream Surveys Data Sheet C - Field Survey Results

Waterbody ID: 3197 Site #: 1 Estimated Channel Incision: 2 (m) (height between low bank width and water) Date: 9/25/07 Dissolved Oxygen: 4.3	
Estimated Channel Incision: 2 (m) (height between low bank width and water)	
Biscorred on Jean. His	(0/4)
GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM) 11 UTM X: 0381864 UTM Y: 4143364 +/- (meters) Dissolved Oxygen:	(% sat)
	(μS/cm)
Average Stream Width: 7 (meters) Length of Survey Segment: 140 (meters) (To determine Length of Reach) (20x average stream width) Water Temperature: 23.7	.7 (°C)
Field Staff: Larissa Brown, Aaron Ball	
Transect Cross-Section	
01 02 03 04 05 06 07 08 09	10 11
Station Distance (m) Depth (m) Dept	
Left Bank 0	0 0 0 0
1 0.7 0.1 0.7 0.35 0.7 0.6 0.4 0.1 0.5 0.45 0.3 0.45 0.6 0.4 0.4 0.25 0.6 0.1 0.	0.3 0.05 0.3 0.2
2 1.4 0.3 1.4 0.5 1.4 0.65 0.8 0.15 1 0.5 0.6 0.7 1.2 0.5 0.8 0.3 1.2 0.2 0.	0.6 0.1 0.6 0.25
3 2.1 0.3 2.1 0.6 2.1 0.6 1.2 0.2 1.5 0.6 0.9 0.6 1.8 0.65 1.2 0.5 1.8 0.25 0.	0.9 0.1 0.9 0.3
4 2.8 0.35 2.8 0.65 2.8 0.7 1.6 0.25 2 0.6 1.2 0.6 2.4 0.65 1.6 0.3 2.4 0.3 1.	1.2 0.1 1.2 0.3
5 3.5 0.4 3.5 0.7 3.5 0.7 2 0.25 2.5 0.6 1.5 0.5 3 0.65 2 0.3 3 0.35 1.	1.5 0.1 1.5 0.25
6 4.2 0.35 4.2 0.8 4.2 0.7 2.4 0.2 3 0.6 1.8 0.4 3.6 0.7 2.4 0.3 3.6 0.4 1.	1.8 0.15 1.8 0.2
7 4.9 0.35 4.9 0.65 4.9 0.65 2.8 0.2 3.5 0.6 2.1 0.5 4.2 0.7 2.8 0.3 4.2 0.35 2.	2.1 0.15 2.1 0.15
8 5.6 0.35 5.6 0.7 5.6 0.6 3.2 0.2 4 0.5 2.4 0.5 4.8 0.6 3.2 0.15 4.8 0.25 2.	2.4 0.15 2.4 0.1
9 6.3 0.2 6.3 0.6 6.3 0.3 3.6 0.1 4.5 0.3 2.7 0.4 5.4 0.4 3.6 0.15 5.4 0.15 2.	2.7 0.15 2.7 0.05
Right Bank 7 0 7 0 4 0 5 0 3 0 6 0 4 0 6 0 3	3 0 3 0
Feature Type (riffle, run, or pool pool pool pool pool pool pool p	pool pool

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Signed:	Aaron Ball	Date:	9/25/07	

WBID#	3197
Site #	2

Data Sheet B-Site Characterization

Date & Time: 9/25/07 4:00pm			Site Location Description (e.g. road crossing):				
Personnel: Larissa Brown, Aaron Ball			30 RD cros	sing			
Current Weath	ner Cond	ditions: Rain, clou	ıdy	Facility Nar	Facility Name: Lamar closed Sanitation Landfill		
Weather cond	itions fo	r the past 10 days:	4 in rain	Permit Nun	nber:	MO0110272	
		No drought ☑ ; Pha		II □ ; Phas	e III □ ; Pl	hase IV □ ; Ur	nknown □
		<u> </u>	·	·	•	·	
Site Location		//	oo Monooton III	ma i a atua ia . I ia	Natoro		
		(Universal Transver			weters		
Site 01	Easting	(UTM X):	Northing (UTI	M Y):		Horizontal Ad	ccuracy: Meters
	038221	0	4146443				
Site 11	Easting	(UTM X):	Northing (UTI	M Y):		Horizontal Ac	ccuracy: Meters
	038211	9	4146252				
Photos:							
Photo ID#	Photo Purpose Photo		Photo ID#:	Photo F	Purpose	Photo ID#:	Photo Purpose
32	Upstream 33		Downstrea	m			
Photo ID#	Photo Purpose Photo		Photo ID#	Photo Purpose		Photo ID#	Photo Purpose
Photo ID#	F	hoto Purpose	Photo ID#	Photo F	Purpose	Photo ID#	Photo Purpose
Uses Observ	ed:				1		-
☐ Swimming ☐ Skin diving ☐ SCUBA (☐ SCUBA d	diving □ Tubi		g	☐ Water Skiing	
☐ Wind surfing ☐ Kayaking ☐ Boating		☐ Boating	□ Wadii		ng	□ Rafting	
☐ Hunting ☐ Trapping ☐ Fishing			☑ None	of the above	☐ Other:		
Describe:							

WBID#	3197
Site #	2

Data Sheet B- Site Characterization (Continued)

Surrounding Cond	itions:				
☐ City/County park	s □ playgrounds	☐ MDC co	nservation lands	□ Urban areas	☐ Rural Residential
☐ Campgrounds	☐ State parks	□ National	Forests	☐ Nature trails	☐ Stairs/walkways
☐ Boating accesses	es ☑ Fence	□ No tress	pass sign	☐ Steep Slopes	☐ Other:
Comments:					
Evidence of Huma	n Use: ☐ Foot path/prints	□ Dock/pla	tform.	☐ Camping Sites	☐ Rope swings
☐ RV/ATV Tracks	☐ Fire pit/ring	□ NPDES [☐ Fishing Tackle	☐ Livestock watering
comments/other:	Little pitting	LINI DEO.	Jiscriarge	LI I Brilling Tuomic	LIVESTOCK WATERING
	None				
Substrate:					
% Cobble	15 % Gravel	% Sand	30 % Silt	40% Mud/Clay	15 % Bedrock
Aquatic Vegatation	n:				
	None				
Water Characterist					
Odor:	☐ Sewage	□ Musky	☐ Chem		None ☐ Other:
Color:	☑ Clear	☐ Green	☐ Gray		Milky ☐ Other:
Bottom Deposit:	☐ Sludge	□ Solids			None ☐ Other:
Surface Deposit:	□ Oil	☐ Scum	□ Foam	1 ⊻	None ☐ Other:

WBID#_	_3197_	
Site#	2	

Data Sheet B - Site Characterization (continued)

Channel Feature	Morphology: (Record isola Distance from	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)
	access location (m)				
mmants: (Please r	ecord any additional comment	e here)			
minents. (Hease I	ecord arry additional comment	s riere.)			
	None				
					_
	ou have completed all	sections, check	ed all applicable	e boxes, and that the	form is
omplete.					
. 0: (Aaron Ball		Date of Survey:	9/25/2007	
IDVIATE SIGNATURA	Maiuli Dali		Date of Survey.	9/23/2007	
eyor's Signature:					
veyor's Signature:			_		

Field Data Sheets for Recreational Use Stream Surveys Data Sheet C - Field Survey Results

																		Disso	lved Ox	ygen		
	Waterbo	ody ID:	3197		-	Site #:	2									Date:	9/25/07			Time:	4:00pm	
	Estimate	ed Chanr	nel Incisi	on:	4	(m) (he	ight betw	een low	bank wid	dth and w	ater)									•		
	GPS Lo	cation - 1	Easting (UTM X)	Northir	ng (UTM	Y). Hor	izontal A	ccuracy	Estimate	(EPE / 1	PDOP / F	FOM)			Di	issolved	Oxygen:	2.3		(mg/L)	
							UTM Y:		4146443	3		+/-		(meters)		Di	issolved	Oxygen:			(% sat)	
	11	UTM X	<u>. </u>	0382119)	-	UTM Y:		4146252	2		+/-		(meters)			C	io Condi			(C/2)	
	Average	Stream	Width:			5		(meters)	L	ength of	Survey S	Segment:		150	(meters)		Specifi	ic Cona.			(µS/CIII)	
			ength of I							20x avera	ge strear	n width)				Wa	ter Temp	perature:	22.4		(°C)	
	Fiel	d Staff:																				
											-			•								
			1		Ī		I			Trai	isect C	ross-Sec	ction									
	Distance	1	Distance	2	Distance	3	Distance	4	Distance)5 	Distance)6 	Distance	7	0 Distance	8	0 Distance	9	1 Distance	0	1 Distance	1
Station	(m)	Depth (m)		Depth (m)	(m)	Depth (m)		Depth (m)	(m)	Depth (m)	(m)	Depth (m)		Depth (m)	(m)	Depth (m)						
Left Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.4	0.1	0.3	0.2	0.3	0.1	0.5	0.1	0.3	0.1	0.5	0.15	0.4	0.1	0.2	0.05	0.3	0.15	0.8	0.4	0.4	0.05
2	0.8	0.1	0.6	0.25	0.6	0.1	1	0.1	0.6	0.1	1	0.3	0.8	0.2	0.4	0.05	0.6	0.2	1.6	0.55	0.8	0.05
3	1.2	0.1	0.9	0.25	0.9	0.15	1.5	0.1	0.9	0.1	1.5	0.4	1.2	0.2	0.6	0.1	0.9	0.25	2.4	0.55	1.2	0.1
4	1.6	0.2	1.2	0.2	1.2	0.15	2	0.1	1.2	0.1	2	0.5	1.6	0.2	0.8	0.2	1.2	0.2	3.2	0.55	1.6	0.1
5	2	0.25	1.5	0.2	1.5	0.2	2.5	0.15	1.5	0.05	2.5	0.4	2	0.2	1	0.25	1.5	0.15	4	0.65	2	0.1
6	2.4	0.2	1.8	0.1	1.8	0.2	3	0.25	1.8	0.05	3	0.4	2.4	0.2	1.2	0.25	1.8	0.1	4.8	0.8	2.4	0.05
7	2.8	0.2	2.1	0.1	2.1	0.1	3.5	0.2	2.1	0.05	3.5	0.35	2.8	0.2	1.4	0.2	2.1	0.1	5.6	0.9	2.8	0.05
8	3.2	0.1	2.4	0.1	2.4	0.1	4	0.2	2.4	0.05	4	0.4	3.2	0.2	1.6	0.15	2.4	0.1	6.4	0.85	3.2	0.05
9	3.6	0.15	2.7	0.05	2.7	0.1	4.5	0.2	2.7	0.05	4.5	0.3	3.6	0.15	1.8	0.1	2.7	0.05	7.2	0.7	3.6	0.05
ight Bank	4	0	3	0	3	0	5	0	3	0	5	0	4	0	2	0	3	0	8	0	4	0
eature Type		•		,														,		,		
iffle, run, or pool	po	pool pool		ool	po	ool	pc	ool	po	ool	po	ool	pc	ool	pc	ool	pc	ool	pc	ol	po	ol

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

	Signed:	Aaron Ball	Date:	9/25/07	
--	---------	------------	-------	---------	--

Data Sheet B-Site Characterization

Date & Time:	9/25/07	5:15		Site Location	on Descrip	tion (e.g. road	crossing):				
Personnel:	Larissa	Brown, Aaron Ball		Downstream from RD 40 crossing							
Current Weat	her Cond	ditions: Rain/clou	dy	Facility Nar	me:	Lamar Close	d Sanitation Landfill				
Weather cond	litions fo	r the past 10 days:	4 in rain	Permit Number: MO0110272							
Drought cond	itions?: I	No drought ☑ ; Pha	se I □ ; Phase	Ⅱ 🛘 ; Phas	e III □ ; Pl	hase IV □ ; Ur	nknown 🗆				
Site Location	1.										
		(Universal Transver	se Mercator P	rojection, In	Meters						
Site 01	Easting	(UTM X):	Northing (UTN	M Y):		Horizontal Ac	curacy: Meters				
	038307	'1	4144243								
Site 11	Easting	(UTM X):	Northing (UTN	M Y):		Horizontal Ac	curacy: Meters				
	038330	•	4144034								
			1			I					
Photos:											
Photo ID#	F	Photo Purpose	Photo ID#:	Photo F	Purpose	Photo ID#:	Photo Purpose				
34	Downst	•	35	Upstream	•		·				
				Г							
Photo ID#	_ F	Photo Purpose	Photo ID#	Photo F	Purpose	Photo ID#	Photo Purpose				
Photo ID#	F	hoto Purpose	Photo ID#	Photo F	Purpose	Photo ID#	Photo Purpose				
				•		•					
Uses Observ	ed:										
☐ Swimming)	☐ Skin diving	☐ SCUBA di	iving	☐ Tubin	g	□ Water Skiing				
☐ Wind surfi	ng	☐ Kayaking	☐ Boating		□ Wadir	ng	□ Rafting				
☐ Hunting		☐ Trapping	☐ Fishing		☑ None	of the above	☐ Other:				
Describe:			<u>. </u>								

WBID#	3197
Site #	3

Data Sheet B- Site Characterization (Continued)

dential
ways
70
gs vatering
valering
drock
Other:
Other: Other: Other:

WBID#_		
Site #		

Data Sheet B - Site Characterization (continued)

Channel Feature	forphology: (Record isola Distance from	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)
	access location (m)			, , ,	
	, ,				
mments: (Please re	ecord any additional comments	s here.)			
	•				
	None				
	rtone				
ease verify that ye	ou have completed all s	sections, check	ed all applicable	e boxes, and that the	form is
mplete.					
=					
veyor's Signature:	Aaron Ball		Date of Survey:	9/25/2007	
-, z. c c.g. lata. o				0.20.2001	

Field Data Sheets for Recreational Use Stream Surveys Data Sheet C - Field Survey Results

															l			Disso	lved Ox	xygen		
	Waterbo	ody ID:	3197		-	Site #:	3									Date:	9/25/07			Time:	5:15	
	Estimate	ed Chanr	nel Incisi	on:		(m) (hei	ght betw	een low	bank wic	ith and w	vater)						issolved ((mg/L)	
	01	cation - l UTM X		038307	1		UTM Y:		4144243	3	e (EPE / 1	+/-		(meters)			issolved ('				
	11	UTM X	<u>. </u>	038330	1	-	UTM Y:		4144034	1	-	+/-		(meters)			Specifi	ic Cond:			(uS/cm)	
		e Stream ermne Le			7			(meters)		_	-	Segment: n width)	140		(meters)	Wa	ter Temp	•			(°C)	
	Fiel	ld Staff:	Larissa	Brown,	Aaron B	all												•				
										Trai	nsect C	ross-Sec	ction									
	0)1	0)2	()3	0	4	0	5	0	16	0	7	0	8	0	9	1	0	1	1
Station	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
Left Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.7	0.3	0.8	1	0.7	1	0.6	1	0.8	1	0.8	1	0.9	1	0.9	1	0.7	1	0.7	1	0.8	1
2	1.4	0.5	1.6	1	1.4	1	1.2	1	1.6	1	1.6	1	1.8	1	1.8	1	1.4	1	1.4	1	1.6	1
3	2.1	0.5	2.4	1	2.1	1	1.8	1	2.4	1	2.4	1	2.7	1	2.7	1	2.1	1	2.1	1	2.4	1
4	2.8	0.7	3.2	1	2.8	1	2.4	1	3.2	1	3.2	1	3.6	1	3.6	1	2.8	1	2.8	1	3.2	1
5	3.5	0.8	4	1	3.5	1	3	1	4	1	4	1	4.5	1	4.5	1	3.5	1	3.5	1	4	1
6	4.2	1	4.8	1	4.2	1	3.6	1	4.8	1	4.8	1	5.4	1	5.4	1	4.2	1	4.2	1	4.8	1
7	4.9	1	5.6	1	4.9	1	4.2	1	5.6	1	5.6	1	6.3	1	6.3	1	4.9	1	4.9	1	5.6	1
8	5.6	1	6.4	1	5.6	1	4.8	1	6.4	1	6.4	1	7.2	1	7.2	1	5.6	1	5.6	1	6.4	1
9	6.3	0.7	7.2	1	6.3	1	5.4	1	7.2	1	7.2	1	8.1	1	8.1	1	6.3	1	6.3	1	7.2	1
Right Bank	7	0	8	0	7	0	6	0	8	0	8	0	9	0	9	0	7	0	7	0	8	0
Feature Type	•	vo1	•	201		201		vo1		vo1		vo1	***	vo1		o1	***	.o1	***	.o1	**	o1
(riffle, run, or pool	pc	ool	pc	ool	po	ool	pc	IUI	pc	JUI	pc	ool	po	IUI	po	UI	po	IUI	po	IUI	po	UI

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Signed:	Aaron Ball	Date:	9/25/07	
				_

WBID# 3197



Site# 1 Photo ID# 30, Downstream



Site# 2 Photo ID# 32, Upstream



Site# 1 Photo ID# 31, Upstream



Site# 2 Photo ID# 33, Downstream

WBID# 3197



Site# 3 Photo ID# 34, Downstream



Site# 3 Photo ID# 35, Upstream



"Gilisa Gould" <ggould@ses-corp.com> 03/31/2008 04:53 PM

To "Anne Peery" <anne.peery@dnr.mo.gov>

bcc

Subject RE: Yet another UAA question...

WBID #3197 Dick's Fork

According to the field team leader of this waterbody assessment, Aaron Ball, this stream was at base flow when assessed. As far as when and how much precip fell during the "last 10 days", that information was not gathered since that level of detail was not required. The total precip for the last 10 days is what was required and what was recorded.

Please send any further comments or questions for #3197 to Aaron Ball: aball@ses-corp.com

I hope I got this to you just in time!

Have a good day!

Gilisa Gould SES, Inc., Merriam, KS 913.307.0046 Ext. 19 800.897.1163 ggould@ses-corp.com

From: Anne Peery [mailto:anne.peery@dnr.mo.gov]

Sent: Friday, March 28, 2008 11:57 AM

To: ggould@ses-corp.com

Subject: Yet another UAA question...

Hi, Gilisa!

This one is Dick's Fork, WBID 3197. It says there was 4" of rain in the last 10 days and current conditions were "rainy". Common sense says that can't be at base flow, but the pictures aren't conclusive. The upstream pic for site 1 even looks like there is no flow upstream...

Aaron Ball signed off on this one. Do you have any information to offer to clarify whether this is baseflow or not? Like, when exactly did the 4" fall...all at once or scattered? Was the rain on the day of the survey just starting? Was it raining hard or sprinkling? Thanks!

Good luck with your certification exams!

Anne Peery Total Maximum Daily Load (TMDL) Developer Missouri Department of Natural Resources Water Protection Program